



2-11-04

AF/1755
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PATENT
00169DIV3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 1755 :
Examiner: Pasterczyk :
In re application of : IMPROVEMENTS IN ATOM OR
Matyjaszewski et al. : GROUP TRANSFER RADICAL
Serial No.: 09/359,359 : POLYMERIZATION
Filed: July 23, 1999 :

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

February 10, 2004

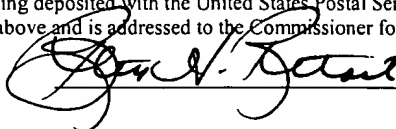
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Applicants, in accordance with the duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advise the United States Patent and Trademark Office of the references listed on the accompanying Form PTO/SB/08 *Information Disclosure Statement by Applicant* (substitute for Form 1449A/PTO). A copy of each of the cited references is herewith enclosed.

Express Mail Number ER524411684US
Date of Deposit February 10, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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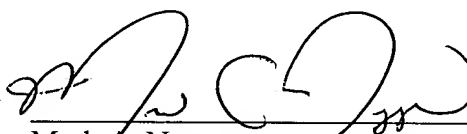
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Applicants note that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this *Information Disclosure Statement by Applicant* "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Applicants further note that the filing of this *Information Disclosure Statement by Applicant* is not an admission that the references cited herein constitute prior art under 35 U.S.C. §§ 102-103 with respect to the captioned application.

Pursuant to 37 C.F.R. § 1.97(c)(2), Applicants have included payment of the fee set forth in 37 C.F.R. § 1.17(p). Also, the Commissioner is hereby authorized to charge any additionally required fees deemed necessary for consideration of this *Information Disclosure Statement by Applicant* to Account No. 11-1110.

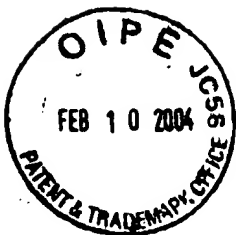
Respectfully submitted,



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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 4		Complete if Known	
		Application Number	09/359,359
		Filing Date	July 23, 1999
		First Named Inventor	Matyjaszewski
		Art Unit	1755
		Examiner Name	Pasterczyk
		Attorney Docket Number	00169DIV3

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		3,183,217	05/11/1965	Serniuk, et al.	
		3,959,225	05/25/1976	Kuntz	
		4,728,706	03/01/1988	Farnham, et al.	
		5,089,135	02/18/1992	Yoneyama, et al.	
		5,312,871	05/17/1994	Mardare, et al.	
		5,470,928	11/28/1995	Harwood, et al.	
		6,162,882	12/19/2000	Matyjaszewski, et al.	
		6,624,262	09/23/2003	Matyjaszewski, et al.	
		6,624,263	09/23/2003	Matyjaszewski, et al.	
		6,627,314	09/30/2003	Matyjaszewski, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 0341012	11/08/1989			
		EP 0870809	10/14/1998			
		WO 00/56795	09/28/2000			
		WO 98/01480	01/15/1998			

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Application Number	09/359,359
		Filing Date	July 23, 1999
		First Named Inventor	Matyjaszewski
		Art Unit	1755
		Examiner Name	Pasterczyk
		Attorney Docket Number	00169DIV3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		United States Patent application No. 10/269,556 filed October 11, 2002. Attorney Docket No. 010686	
		United States Patent application No. 09/534,827 filed March 23, 2000 Attorney Docket No. 00093	
		United States Patent application No. 09/972,056 filed October 5, 2001. Attorney Docket No. 00819	
		United States Patent application No. 10/034,908 filed December 21, 2001. Attorney Docket No. 001153	
		United States Patent application No. 10/118,519 filed April 6, 2002. Attorney Docket No. 010314	
		United States Patent application No. 10/271,025 filed October 15, 2002. Attorney Docket No. 010687	
		United States Patent application No. 10/289,545 filed November 7, 2002. Attorney Docket No. 00163DIVCON	
		CARTER ET AL., "Polyimide Nanofoams From Phase-Separated Block Copolymers", Electrochemical Society Proceedings, 1997, pp. 32-43, Vol. 97, No. 8, Electrochemical Society, Pennington, NJ, US, ,	
		CHEN ET AL., "Pryolytic Behavior and In-Situ Paramagnetism of Star-like C60(CH3)x(PAN)xcopolymers", European Polymer Journal, March 1, 1998, pp. 421-429, Vol. 34, No. 3-4, Elsevier Science Ltd., Oxford, GB,	
		GROMADA, J.; MATYJASZEWSKI, K. Macromolecules 2001, 34, 7664-7671.	

Examiner Signature		Date Considered	
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		Application Number	09/359,359
		Filing Date	July 23, 1999
		First Named Inventor	Matyjaszewski
		Art Unit	1755
		Examiner Name	Pasterczyk
		Attorney Docket Number	00169DIV3

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		JIN-SHAN WANG AND KRZYSZTOF MATYJASZEWSKI, "Controlled/Living" Radical Polymerization. Atom Transfer Radical Polymerization in the Presence of Transition-Metal Complexes". Reprinted from the Journal of the American Chemical Society, 1995, Vol. 117, No. 20.	
		JIN-SHAN WANG AND KRZYSZTOF MATYJASZEWSKI, "Controlled/Living" Radical Polymerization. Halogen Atom Transfer Radical Polymerization Promoted by a Cu(I)/Cu(II) Redox Process". Reprinted from Macromolecules, 1995, 28. Department of Chemistry, Carnegie Mellon University. Received May 2, 1995; Revised Manuscript Received August 14, 1995.	
		KRZYSZTOF MATYJASZEWSKI, MINGLI WEI, JIANHUI XIA AND NANCY E. MCDERMOTT, "Controlled/Living" Radical Polymerization of Styrene and Methyl Methacrylate Catalyzed by Iron Complexes ¹ , Macromolecules, Vol. 30, No. 26, 1997.	
		MATYJASZEWSKI, K.; Editor Controlled/Living Radical Polymerization. Progress in ATRP, NMP, and RAFT. In: ACS Symp. Ser., 2000; 768, 2000., Chapter 19 "Reverse Atom Transfer Radical Polymerization Using AIBN or BPO as Initiator" pp. 263-275	
		MATYJASZEWSKI, K.; XIA, J. Chem. Rev. 2001, 101, 2921-2990.	
		MINGLI WEI, JIANHUI XIA, NANCY E. MCDERMOTT AND KRZYSZTOF MATYJASZEWSKI, "Atom Transfer Radical Polymerization of Styrene in the Presence of Iron Complexes", Polymer Preprints, 38(2), 231 (1997), Department of Chemistry, Carnegie Mellon University.	
		QIU, J.; MATYJASZEWSKI, K; THOUIN, L.; AMATORE, C. MACROMOL. Chem. Phys. 2000, 201, 1625-1631.	
		QUEFFELEC, J.; GAYNOR, S.G.; MATYJASZEWSKI, K. Macromolecules 2000, 33, 8629-8639.	
		TAKEICHI ET AL., "Preparation of Porous Carbon Films by the Pyrolysis of Poly(Urethane-imide) Films and Their Pore Characteristics", Carbon, February 2001, pp. 257-265, Vol. 39, No. 2,	
		TIMOTHY E. PATTEN AND KRZYSZTOF MATYJASZEWSKI, Atom Transfer Radical Polymerization and the Synthesis of Polymeric Materials, Advanced Materials 1998 10 No. 12, 901-915.	

Examiner Signature		Date Considered	
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		Application Number	09/359,359
		Filing Date	July 23, 1999
		First Named Inventor	Matyjaszewski
		Art Unit	1755
		Examiner Name	Pasterczyk
		Attorney Docket Number	00169DIV3

NON PATENT LITERATURE DOCUMENTS			
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		WANG ET AL., "Living"/Controlled Radical Polymerization, Transition-Metal-Catalyzed Atom Transfer Radical Polymerization in the Presence of a Conventional Radical Initiator", Macromolecules, 1995, Vol. 28, pp. 7572-7573.	
		WANG, J.-S.; MATYJASZEWSKI, K., J. Am. Chem. Soc. 1995, 117, 5614-5615.	

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